



## Coaxial Directional Coupler, 10 to 67 GHz, 10 dB Coupling Level

### Description:

**SCD-1036731008-VF-SA** is a 10 dB coaxial directional coupler that covers the frequency range of 10 to 67 GHz. The nominal insertion loss of the coupler is 2.6 dB and the coupling ripple is  $\pm 1.5$  dB. The directivity of the coupler is 8 dB. The RF connectors of the coupler are 1.85 mm female connectors. The power handling of the coupler is 10 watts maximum. Other configurations, such as different connectors for input and output, are available under different model numbers.



### Features:

- Low Insertion Loss
- Flat Coupling Level

### Applications:

- Test Labs
- Instrumentations
- Sub-assemblies

### Electrical Specifications:

Parameter	Minimum	Typical	Maximum
Frequency	10 GHz		67 GHz
Insertion Loss		2.6 dB	
Coupling		10 dB	
Coupling Flatness		$\pm 1.5$ dB	
Directivity		8 dB	
Port Return Loss		9 dB	
Impedance		50 $\Omega$	
Power Handling			10 W (CW)
Specification Temperature		+25 °C	
Operating Temperature	-40 °C		+80 °C

### Mechanical Specifications:

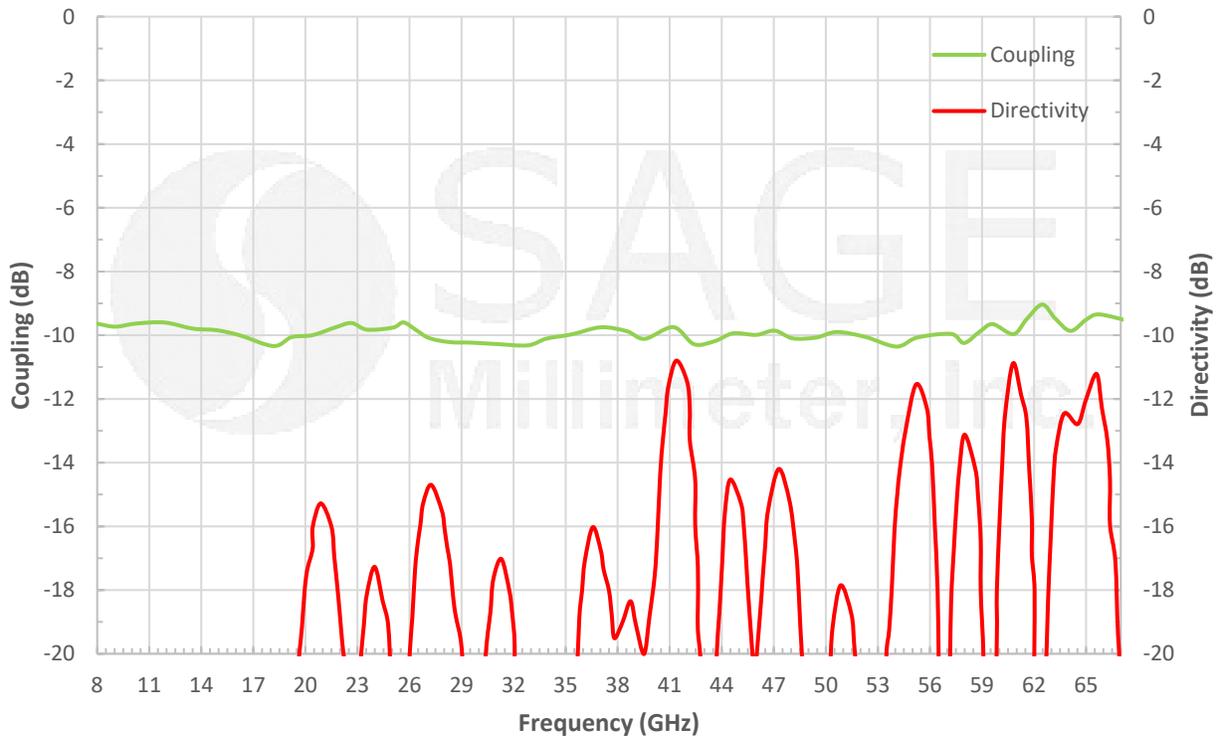
Item	Specification
RF Ports	1.85 mm Female
Case Material	Aluminum
Finishing	Black Painted
Weight	1.4 Oz
Outline	CD-VS-SR1



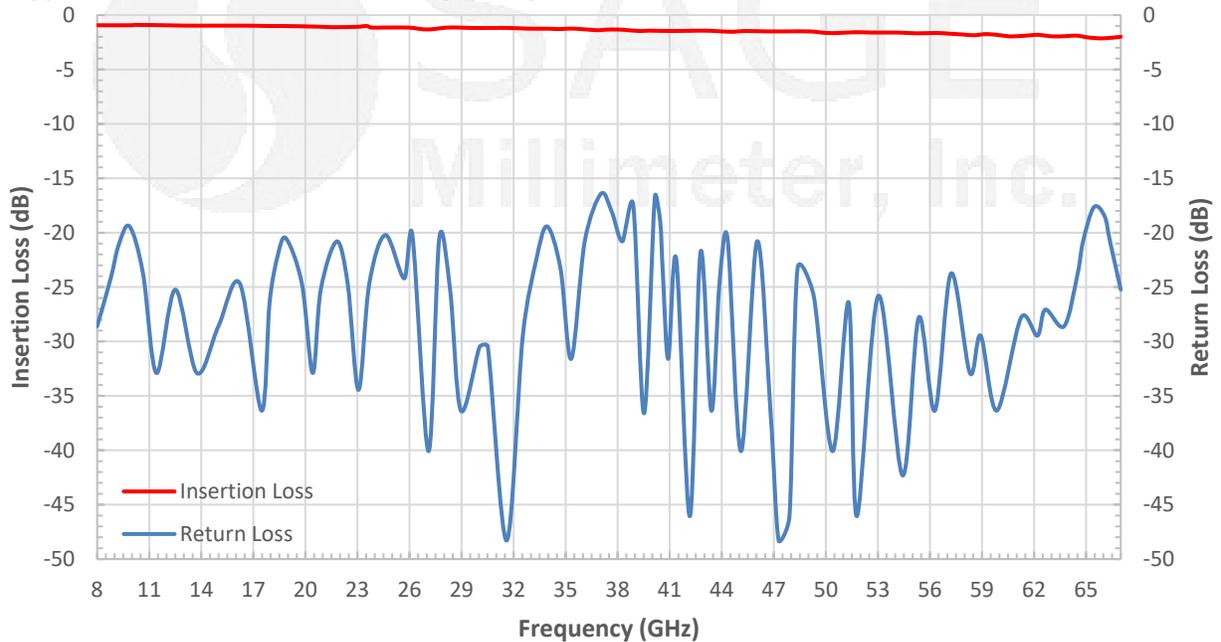


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### Typical Coupling and Directivity vs Frequency

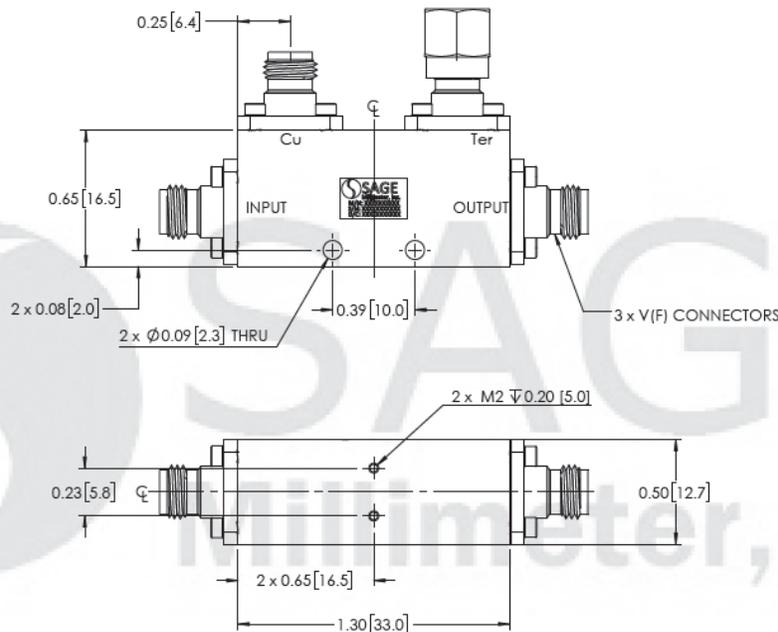


### Typical Performance vs. Frequency



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**Mechanical Outline:** (Unless otherwise specified, all dimensions are in inches [millimeters])



**Note:**

- All data presented is collected from a sample lot. Actual data may vary unit to unit, slightly.
- All testing was performed under +25 °C case temperature.
- Eravant reserves the right to change the information presented without notice.

**Caution:**

- Proper torque,  $8.0 \pm 0.15$  inch-pounds ( $0.90 \pm 0.02$  Nm) shall be used. **Eravant torque wrench with model number [SCH-08008-S1](#) is highly recommended.**

